
International Standard



4102

INTERNATIONAL ORGANIZATION FOR STANDARDIZATION • МЕЖДУНАРОДНАЯ ОРГАНИЗАЦИЯ ПО СТАНДАРТИЗАЦИИ • ORGANISATION INTERNATIONALE DE NORMALISATION

Equipment for crop protection — Sprayers — Connection threading

Matériel de traitement agropharmaceutique — Pulvérisateurs — Filetages de raccordement

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Descriptors: agricultural machinery, agricultural sprayers, junctions, screw threads, dimensions, thread pitch.

Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of developing International Standards is carried out through ISO technical committees. Every member body interested in a subject for which a technical committee has been authorized has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work.

Draft International Standards adopted by the technical committees are circulated to the member bodies for approval before their acceptance as International Standards by the ISO Council.

International Standard ISO 4102 was developed by Technical Committee ISO/TC 23, *Tractors and machinery for agriculture and forestry*, and was circulated to the member bodies in March 1983.

It has been approved by the member bodies of the following countries:

Australia	Finland	Portugal
Austria	France	Romania
Belgium	Germany, F.R.	South Africa, Rep. of
Bulgaria	India	Spain
China	Iran	Sweden
Czechoslovakia	Italy	Turkey
Denmark	Korea, Dem. P. Rep. of	United Kingdom
Egypt, Arab Rep. of	Poland	USSR

The member bodies of the following countries expressed disapproval of the document on technical grounds:

Canada
USA

Equipment for crop protection — Sprayers — Connection threading

1 Scope and field of application

This International Standard lays down the essential dimensions of connection threading for sprayers for crop protection to cover existing and foreseeable needs.

This International Standard is applicable to spray tips, nozzles, pressure regulators and nuts of sprayers.

2 References

ISO 228/1, *Pipe threads where pressure-tight joints are not made on the threads — Part 1: Designation, dimensions and tolerances.*

ISO 261, *ISO general purpose metric screw threads — General plan.*

3 Dimensions of the threads

3.1 Metric thread

Metric thread ISO 261		Application
Nominal diameter	Pitch mm	
M12	1,5	Spray tips, nozzles, pressure regulators and nuts
M18	1,5	
M27	2,0	

NOTE — The metric threading will be adopted for preference.

3.2 Gas list thread

Gas list thread ISO 228/1				Application
Nominal in	Number of threads per inch	Pitch mm	External diameter, <i>d</i> mm	
1/4	19	1,337	13,157	Spray tips, nozzles, pressure regulators and nuts
3/8	19	1,337	16,662	
3/4	14	1,814	26,441	

NOTE — The gas list threading is more suited to plastics equipment.